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23 JAN 1976
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Agricultural Memorandum No 756

Soil adjustments to effective transpirations

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In previous published work (Agr Meteorol 4:321-338), the following adjustments were suggested for the 2 inch limit used in calculating effective transpiration, using the Land Classification detailed in Ag Mem 755.

1A +0.2	5A -0.3	7G -0.5
2A +0.1	5G -0.5	8H -1.0
2AG 0.0	6AG -0.2	9H -1.0 in.
3A +0.2		
4G 0		

These have been applied to the findings of Ag Mem 755 and therefore the areal averages of effective transpiration (in mm) can be changed as follows:-

1N. 329 + 1 = 330	1S. 339 + 0 = 339	2. 313 - 17 = 296
3. 370 - 3 = 367	4. 324 -18 = 306	5. 342 - 1 = 341
6. 316 -22 = 294	7. 354 -11 = 343	8. 406 - 5 = 401
9. 411 + 3 = 414	10. 343 -19 = 324	11. 370 - 7 = 363
12. 350 + 2 = 352	13. 352 + 0 = 352	14. 400 + 1 = 401
15W. 383 - 3 = 380	15E. 366 - 1 = 365	16. 352 - 3 = 349
17W. 353 + 0 = 353	17E. 360 + 1 = 361	18N. 388 - 1 = 387
18S. 387 - 7 = 380	19. 366 - 2 = 364	20. 366 + 0 = 366
21. 365 - 1 = 364	22W. 354 + 1 = 355	22E. 351 + 1 = 352
23. 341 + 5 = 346	24. 351 - 1 = 350	25N. 387 - 2 = 385
25S. 416 - 5 = 411	26. 382 - 5 = 377	27. 363 - 3 = 360
28. 338 + 2 = 340	29. 348 + 0 = 348	30. 407 - 1 = 406
31N. 357 - 1 = 356	31S. 377 - 4 = 373	32. 363 - 4 = 359
33W. 351 - 1 = 350	33E. 343 + 1 = 344	34. 356 + 0 = 356
35. 398 - 3 = 395	36. 379 - 3 = 376	37N. 377 - 8 = 369
37S. 390 - 1 = 389	38N. 382 - 5 = 377	38S. 400 - 2 = 398
39W. 358 - 2 = 356	39E. 372 + 0 = 372	40. 459 - 9 = 450
41. 435 - 7 = 428	42. 451 - 5 = 446	43N. 415 - 13 = 402
43S. 445 - 3 = 442	44. 415 - 9 = 406	45W. 415 - 3 = 412
45E. 400 - 2 = 398	46. 395 - 6 = 389	IOW. 420 - 5 = 415
47. 434 - 7 = 427	48N. 385 -21 = 364	48S. 379 - 23 = 356
49N. 372 -15 = 357	49S. 370 -13 = 357	50. 445 - 8 = 437
51. 410 -21 = 389	52. 444 - 8 = 436	

If effective transpiration during the April-September period is used as an agroclimatic parameter, the same corrections can be applied.

Any comments or suggestions on this paper should be referred to the author.

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September 1975

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